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**AES 2009-2010
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Audio Engineering Society Chicago Section Meeting

Tuesday, January 26, 2009, 7:30 PM

ImmersAV Technology™ Creating an Immersive Audio Visual Experience for Consumer and Professional Entertainment, Informational and Educational Applications.

LOCATION: Shure Incorporated, 5800 W Touhy Ave, Niles, IL 60714

DIRECTIONS: When arriving by car, approach from the east by heading west on Touhy, then turn right into the parking lot just east of the Shure building, which is on the corner of Touhy and Lehigh. **DO NOT** turn left into parking lot from Touhy heading east, as this is illegal and you may get a traffic ticket. Enter at the employee entrance on the east side of the building and register at the guard desk. A valid driver's license must be presented at the guard desk when registering.

Dinner (optional but please RSVP) will begin at 6:30pm. Reservation required, contact Treasurer Teri Grossheim at tgrosshe@depaul.edu by Monday January 25th. Pizza will be provided, please let Teri know if you have a preference for no-cheese and/or vegetarian. Price is \$10 for non-members and \$8 for members and students.

About the Presentation:

This month Bob Schulein will give a presentation on ImmersAV Technology™.

ImmersAV Technology™ is a group of audio and video techniques for creating recordings that are true to an original performance, visually stimulating and sonically accurate regarding tonality, directionality, and dynamic range. ImmersAV Technology™ is a process capable of creating a personal entertainment educational or promotional point of view experience based on the synergy of sight and sound. ImmersAV recordings are created using patent pending binaural audio technology and High Definition video processes. Programs produced using ImmersAV Technology™ require no special playback equipment. By selecting from the wide variety of consumer audio and video playback technology, individuals can set their own level of reproduction quality.

Bob will present the technology and artistic motivation behind this process as well as play a variety of recorded examples. In addition, a live performance will be recorded and played back featuring a group of professional classical musicians from the Chicago-based Fifth House Ensemble. Demonstrations will be presented using High Definition video and individual headphones. If you wish to bring your favorite headphones or earphones with a 1/8" stereo plug, please do so. For those not bringing headphones, units will be provided.

An example of Bob's ImmersAv recording method can be found at:
http://www.youtube.com/watch?v=w_21FRTK0Sw

About this month's presenter:

Bob Schulein is the President and owner of RBS Consultants, an international acoustical consulting firm. He has over 30 years experience in the consumer, professional, and hearing health industries, with 13 issued and 16 pending patents. He is a past President of the Audio Engineering Society and currently serves as the Chair of the AES Technical Council, Associate Technical Editor of the JAES on Microphones and Chair of the AES Technical Committee on Hearing and Hearing Loss Prevention. Bob is a part of several start-up companies, one of which is Asius Technologies, where he serves as Vice President of Engineering. Asius Technologies is focused on bringing a new technology to market that will allow individuals to hear better with a variety of audio devices including hearing aids due to a patent pending technique by which sound can be coupled directly into the ear canal with extreme comfort and fidelity.

Chicago Section Linked in Site:

A LinkedIn group has been created for the AES Chicago Section. If you are interested in joining this group search groups for "Chicago AES".

Upcoming Meetings:

January 26th 2010:

Binaural Recording: Bob Schulein

February 23rd 2010:

Tour of Riverbank Acoustical Laboratories (<http://riverbank.alionscience.com/index.htm>)

Employment Opportunities:

ACOUSTICS ENGINEER MOTOROLA INC.

Motorola, Fort Lauderdale, Florida, has a permanent, full-time opportunity available for an Acoustics Engineer in the iDEN Mobile Devices organization. We are in need of an acoustics engineer to help optimize the sound quality of mobile communications devices, including iDEN and CDMA mobile handsets.

Qualifications and Experience

- B.S. or M.S degree in Acoustics or similar relevant field.
- Considerable knowledge of physical acoustics, transducers, acoustic simulation, and audio for telecommunications
- Considerable knowledge of micro-acoustic loudspeaker design, simulation and analysis methods
- Fundamental knowledge of perceptual acoustics, including hearing models, perceptual metrics for loudness, speech intelligibility and influencing factors and speech production/perception.
- Hands-On experience conducting acoustic data measurement and analysis.
- Experience in subjective test methodologies, including a working knowledge of statistical analysis tools and techniques (Design of Experiments, Comparative Techniques, etc.).
- Understanding of digital signal processing techniques - FIR/IIR digital filtering, multi-channel noise suppression, critical band filters (Bark scale), compression (single- and multi-band), loudness computation (Zwicker, Moore & Glasburg).
- Must be positive, open-minded, embraces challenges and can work well with others.

Responsibilities and Skills

- Be responsible for acoustic and audio design of mobile communications devices from conception to mass production.
- Work with mechanical, electrical, and software development teams to insure all handset audio requirements are defined and met as a product matures through various phases of development.
- Verify audio performance through careful testing and accurate reporting of performance data.
- Work and coordinate with vendors to develop microphones, earpiece receivers, and micro-loudspeakers for use in mobile handsets.
- Integrate new audio features into product portfolio.
- Utilize advanced simulation tools for predicting transducer response when integrated into cellular phone and 2-way radio housings.
- Improve Lab test capabilities by acquiring new test equipment or methods, conducting gauge repeatability and reproducibility analysis, documenting test procedures, and correlating various audio test labs.
- Be self-motivating and take leadership / ownership of the product performance.
- Communicate well with people of various backgrounds.

Visit <http://www.motorola.com> for more information.

Or contact:

Steve M. Joss

iDEN Mobile Devices

Motorola Inc.

8000 W. Sunrise Blvd., 52-9KK e-mail: e10397@email.mot.com

Fort Lauderdale, FL 33322. USA

Tel: (954) 275-9074

Fax: (954) 723-6101

Do you have a job opportunity you would like to publicize? Contact Section Secretary Bob Zurek at robert.zurek@motorola.com for more information.